TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-07-04-02** **Date: 06-07-17**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of concrete drain at NMH Layout 4th cross to Basava Dhyana center in Ward no.14 Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/142/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-17
Sample ID No	:	2017-07-04-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-07-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.75	–
2	Finess by Air permeablity method (m^2/kg, Min)	265.6	225m^2/kg, Min
3	Density (gm/cc)	3.17	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-04-02** **Date: 08-07-17**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of concrete drain at NMH Layout 4th cross to Basava Dhyana center in Ward no.14 Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/142/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-07-17
Sample ID No	:	2017-07-04-02/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	453	453	3.0	97.0	90-100
3	20 mm	5285	5738	38.3	61.7	30-70
4	10 mm	4683	10421	69.5	30.5	10-35
5	4.75 mm	4258	14679	97.9	2.1	0-5
6	Pan	321	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-04-02** **Date: 07-07-17**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of concrete drain at NMH Layout 4th cross to Basava Dhyana center in Ward no.14 Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010
Customer Reference	:	BBMP/EE/DD/WO/142/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-17
Sample ID No	:	2017-07-04-02/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	253	253	5.1	94.9	90-100
3	10 mm	2498	2751	55.0	45.0	25-55
4	4.75 mm	2121	4872	97.4	2.6	0-10
5	Pan	128	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-07-04-02** **Date: 07-07-17**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Construction of concrete drain at NMH Layout 4th cross to Basava Dhyana center in Ward no.14 Bagalagunte.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/142/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-17
Sample ID No	:	2017-07-04-02/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	04-07-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	63	63	6.3	93.7	90-100	90-100	90-100	95-100
3	2.36 mm	129	192	19.2	80.8	60-95	75-100	85-100	95-100
4	1.18 mm	158	350	35.0	65.0	30-70	55-90	75-100	90-100
5	600 micron	184	534	53.4	46.6	15-34	35-59	60-79	80-100
6	300 micron	195	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	206	935	93.5	6.5	0-10	0-10	0-10	0-15
8	Pan	65	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬೆಂಗಳೂರು
ದಂಗಳೂರು

CIVIL PRO Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-04-02 **Date: 19/07/2017**

Customer : Assistant Executive Engineer, T-Dasarahalli Sub division, BBMP, Bangalore.

Address : T-Dasarahalli Sub division, BBMP, Bangalore.

Project Name : Construction of concrete drain at NMH Layout 4th cross to Basava Dhyana center in Ward no.14 Bagalagunte.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar. Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/142/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-07-17

Sample ID No : 2017-06-09-02/03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	12/07/2017	19/07/2017	149.48 X 151.47 X 150.27	22642	8.446	405.3	17.9	17.5
2	PCC	M20	12/07/2017	19/07/2017	150.62 X 149.72 X 150.73	22551	8.399	396.9	17.6	
3	PCC	M20	12/07/2017	19/07/2017	150.07 X 150.18 X 149.79	22538	8.365	385.4	17.1	

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

CIVIL PRO BANGALORE Sig..... Date.....

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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